

**The NVAP Project** – [NVAP](#) (the NASA Water Vapor Project) began as a project to create a record of the distribution of Earth's water vapor on a daily basis, with gridded total column and layered water vapor over both ocean and land. A reanalysis and extension of ([NVAP](#)), called **NVAP-M** spans 1988-2009. **NVAP-M** completely supersedes the heritage NVAP data set.

**Data Products – NVAP-M** has layered and total precipitable water values, with separate datasets designed for Climate, Weather, and Ocean studies. Climate and Ocean datasets have daily values. The Weather dataset has 6-hourly values. Each data stream except the Ocean will include information regarding the total precipitable water (TPW) as well as the vertical distribution of water vapor over 4 broad atmospheric layers: Surface - 700 hPa, 700 - 500 hPa, 500 - 300 hPa, and <300 hPa. **NVAP-M** Ocean will include TPW only.

Data from the **NVAP-M** project are written in netCDF 4.0 format and can be found in the **NVAP-M** pages of the ASDC website: [https://eosweb.larc.nasa.gov/project/nvap/nvap-m\\_table](https://eosweb.larc.nasa.gov/project/nvap/nvap-m_table). Each file contains several grids of data, depending on product, including one array of floating point numbers describing the total or layered water vapor.

**Documentation** – We recommend reading the [NVAP-M User Guide](#) and [NVAP-M ATBD](#) documents.

**Dataset Organization** – The datasets are stored as netCDF files and are organized by type of study area: Climate, Weather, and Ocean. variables mapped on a uniform space-time grid.

**Ordering Data** – Use the [ASDC HTML TOOL](#) or the [Reverb Search Tool](#). Register as a New User, if you have not already registered.

**Data Read and Display Tools** – There are IDL read programs that are available when you select an NVAP-M dataset on the ASDC NVAP-M pages.

**Panoply** is a netCDF, HDF, and GRIB viewer which creates maps of gridded NVAP-M data: <http://www.giss.nasa.gov/tools/panoply/>

**ncBrowse** is a free, easy-to-use graphical tool for browsing netCDF files:  
<http://www.epic.noaa.gov/java/ncBrowse/>.

**My NASA Data** is an easy-to-use interface that displays a selected NVAP-M dataset, with several options to output the data. Go to the website and use the Live Access Server – Advanced: [MY NASA DATA](#) . Select Data Set -> Atmosphere -> Atmospheric Water Vapor -> Daily Total Column Water Vapor.

We hope this information is useful for you. If you have any questions, please contact us at [support-asdc@earthdata.nasa.gov](mailto:support-asdc@earthdata.nasa.gov).

NASA Langley ASDC User Support

*Preserving, managing, and sharing atmospheric data for the common good*

